



# BIOFILTRO

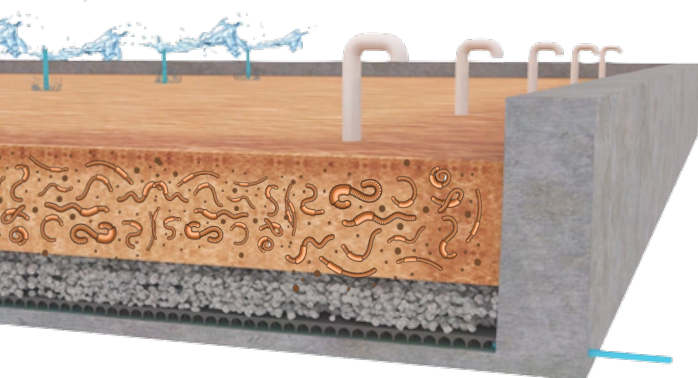
worm powered wastewater solutions

a regenerative solution to sustain the future

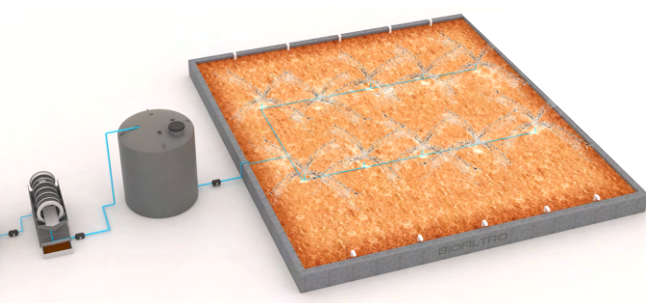




**Food Processors | Slaughterhouses | Sanitary Waste | Aquaculture | Alcoholic Beverages | Dairies**



BioFiltro's patented BIDA® System catalyzes the digestive power of worms and microbes to filter out wastewater contaminants within a four hour intermittent batch process. Water from the facility is applied intermittently via a surface irrigation system to a bed that houses various medias, worms, and microbes. As worms burrow through the bed digesting solids, they create channels which aerate the system while their castings, or excrement, propagate and nourish the biofilm which consumes dissolved and soluble contaminants. The water flows out of the system at the bottom through exit pipes, where it is ready for safe agricultural reuse or can be discharged to the sewer or land application area at a lower nutrient loading. Overtime, the system accumulates a layer of worm castings which, when it is removed from the system, is a stabilized and microbial rich soil amendment beneficial for agricultural use.



#### **Capable of Reducing:**

Biological Oxygen Demand  
Total Suspended Solids  
Total Volatile Suspended Solids  
Total Nitrogen  
Oil & Grease  
Phosphorus  
Ammonia

#### **System Benefits**

- ✓ Can Operate Year Round or Seasonal
- ✓ Custom Designed and Scalable
- ✓ Four Hour Process
- ✓ Minimal Noise
- ✓ 0.0007 kWh Per Gallon Filtered
- ✓ A Showcase of Sustainability



In certain applications, BioFiltro generates carbon avoidance credits. In a flush dairy, by installing the system upstream of a storage lagoon, the system reduces the total volatile solids in the water. This prevents greenhouse gases from forming and generates 6 - 8 carbon credits per milking cow per year.

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